

FIG.1

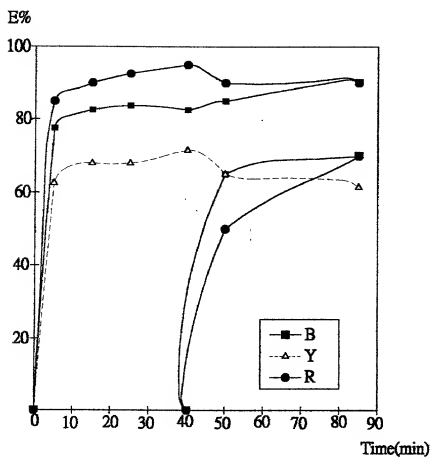


FIG.2

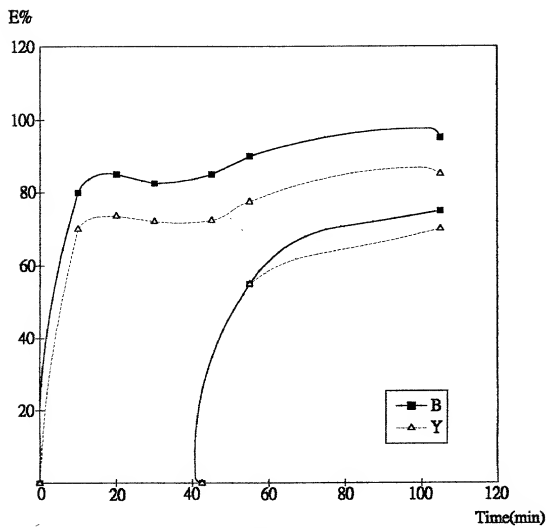


FIG.3

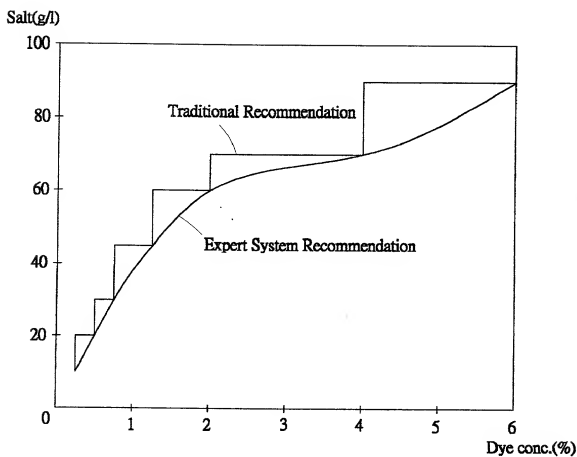


FIG.4

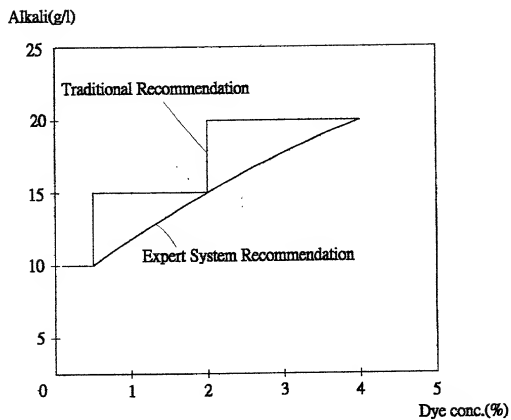


FIG.5

# Dyestuff Database

name **Cibacron Blue F-R**

counts: 29

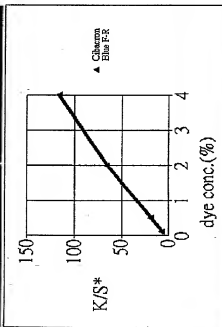
type

60°C

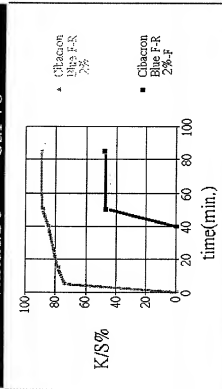
☐ choose conc. ☐ menu

end

build-up curve



exhaust curve



dye build-up and feature parameters

depth	1st exhaustion	final exhaustion	fixation	reactivity	hal.
7.23	87.64091	87.02986	63.11192	101.6598	4
18.88	84.11723	88.24448	46.3824	97.8284	5
65.9	85.0425	90.06641	47.98203	98.17905	5
116.3	70.39645	84.78133	43.34097	91.48753	5

FIG. 6

★China Textile Institute-The Compatibility of dye combination

# The Compatibility of dye combination

type of dyes 60°C

exhaust curve

recipe

conc. (%)

Cibacron Blue F-R

0.5

Cibacron Navy F-G

0.5

Cibacron Red F-B

0.5

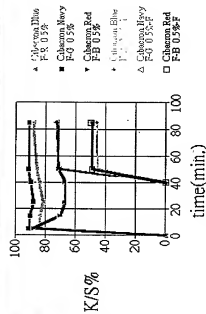
Na2SO4

40

Na2CO3

15

K/S%



compatibility index

std process

migr process

Lab Process

96.8%  
good

go

menu

end

fabric cotton knitted

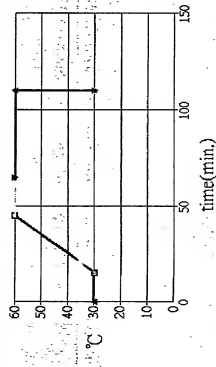
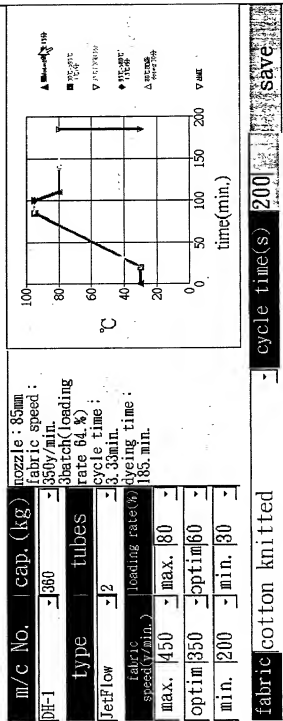


FIG. 7

# Process Optimization

- Dyeing Condition		menu		end
woven kind	dye type	80°C	c std process	e migr process
specification	width(in)	dyeing recipe		
triocot	70	- Evercion Blue H-ECN 125%	- 0.5	%
		Linear wt. (g/y)	Evercion Blue H-ERD	- 0.5
	200	- Evercion Navy Blue H-ER	- 0.5	%
total wt. (kg)	Na2SO4	- 50		g/l
700	Na2CO3	- 20		g/l

FIG. 8



fabric cotton knitted



# Recipe Optimization

type of dyes      std LR      used LR

60°C      10      20

recipe

conc. (%)      conc. (%)

Cibacron Blue F-B      1      1

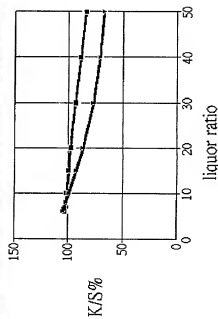
Cibacron Navy F-G      1      1

Cibacron Red F-B      1      1

Na2S04      50. g/l      65.1 g/l

Na2CO3      18. g/l      18. g/l

liquor ratio dependency



c normal

c optimal

c specified

c specified

menu

end

FIG. 9